

**COUNTY OF SAN LUIS OBISPO BOARD OF SUPERVISORS
AGENDA ITEM TRANSMITTAL**

(1) DEPARTMENT Public Works	(2) MEETING DATE 6/19/2012	(3) CONTACT/PHONE Jeff Werst, Design Division Manager (805) 781-4480	
(4) SUBJECT Letter transmitting Plans and Specifications (Clerk's File) for the Rodriguez Bridge Waterline Crossing Fish Passage Improvements Project, Contract No. 300369, for Board approval and advertisement for construction bids.			
(5) RECOMMENDED ACTION It is our recommendation that your Honorable Board, acting as the San Luis Obispo County Flood Control and Water Conservation District (District): <ol style="list-style-type: none"> 1. Approve the project and adopt the plans and specifications for the construction of the Rodriguez Bridge Waterline Crossing Fish Passage Improvements Project, Contract No. 300369; 2. Authorize the Contract to be advertised for construction bids. The recommended bid opening date is Thursday, July 19, 2012; and 3. Provide the Public Works Director, or his designee, the discretion to extend the bid opening date under California Code – Section 4104.5. 			
(6) FUNDING SOURCE(S) Flood Control Zone 3	(7) CURRENT YEAR FINANCIAL IMPACT \$895,000.00 (Total)	(8) ANNUAL FINANCIAL IMPACT N/A	(9) BUDGETED? Yes
(10) AGENDA PLACEMENT <input checked="" type="checkbox"/> Consent <input type="checkbox"/> Presentation (Time Est. _____) <input type="checkbox"/> Hearing (Time Est. _____) <input type="checkbox"/> Board Business			
(11) EXECUTED DOCUMENTS <input type="checkbox"/> Resolutions <input checked="" type="checkbox"/> Contracts <input type="checkbox"/> Ordinances <input type="checkbox"/> N/A		(12) BUDGET ADJUSTMENT REQUIRED? BAR ID Number: N/A <input type="checkbox"/> 4/5th's Vote Required <input checked="" type="checkbox"/> N/A	
(13) OUTLINE AGREEMENT REQUISITION NUMBER (OAR) N/A		(14) W-9 <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
(15) LOCATION MAP Attached	(16) BUSINESS IMPACT STATEMENT? No	(17) AGENDA ITEM HISTORY <input checked="" type="checkbox"/> N/A Date	
(18) ADMINISTRATIVE OFFICE REVIEW <i>Nikki J. Schmidt</i>			
(19) SUPERVISOR DISTRICT(S) District 3 - District 4 -			

Reference: 12JUN19-C-7

County of San Luis Obispo



TO: Board of Supervisors

FROM: Public Works
Jeff Werst, Design Division Manager
Tom Trott, Project Manager

VIA: Dave Flynn, Deputy Director of Public Works

DATE: 6/19/2012

SUBJECT: Letter transmitting Plans and Specifications (Clerk's File) for the Rodriguez Bridge Waterline Crossing Fish Passage Improvements Project, Contract No. 300369, for Board approval and advertisement for construction bids.

RECOMMENDATION

It is our recommendation that your Honorable Board, acting as the San Luis Obispo County Flood Control and Water Conservation District (District):

1. Approve the project and adopt the plans and specifications for the construction of the Rodriguez Bridge Waterline Crossing Fish Passage Improvements Project, Contract No. 300369;
2. Authorize the Contract to be advertised for construction bids. The recommended bid opening date is Thursday, July 19, 2012; and
3. Provide the Public Works Director, or his designee, the discretion to extend the bid opening date under California Code – Section 4104.5.

DISCUSSION

The Lopez Water Treatment Plant (LWTP) is a six (6) million gallon per day treatment plant that treats water for Arroyo Grande, Grover Beach, Oceano, Pismo Beach and County Service Area 12 (Avila Beach). It relies solely on a 20-inch steel pipeline to convey raw water from Lopez Reservoir to the terminal reservoir that feeds the LWTP. The pipeline crosses beneath the Arroyo Grande Creek approximately 15 feet upstream of the Rodriguez Bridge crossing (approximately 3/4 miles south of the Lopez Dam). When first installed in 1968, the pipe was encased in concrete and installed approximately four feet beneath the creek. Creek scour has since exposed the concrete encasement within the creek bed and has created an approximate 3-foot drop within the live stream (see attached photos). Two problems now exist as a result:

1. Continual scour and creek flows threaten the structural integrity of the pipeline.
2. The exposed concrete encasement is considered a fish barrier for threatened southern steelhead.

The Rodriguez Bridge Waterline Crossing Fish Passage Improvements Project (Project), Contract No. 300369, proposes to construct rock improvements within the Arroyo Grande Creek bed that will support and protect the existing concrete-encased 20-inch pipeline from scour, provide passage and habitat for southern steelhead. The rock improvements will create an approximate 225-foot long series of pools and channels extending downstream from the waterline crossing. The improvements are designed to withstand flows from a 100-year storm event and will specifically consist of the following:

- Rock boulder weirs
- Rock streambed channels
- Rock and natural streambed resting pools
- Log structures
- Native vegetation pockets

In addition to protecting the existing waterline and providing fish passage, Project improvements also take into account scouring of bridge piers beneath Rodriguez Bridge. Rodriguez Bridge, a County bridge, crosses Arroyo Grande Creek and provides access to County facilities located at the base of Lopez Dam. Recent bridge inspection reports state that creek scour has significantly exposed some of the timber piles that support the bridge and recommend the implementation of scour mitigation measures to prevent further exposure of the timber piles. Project improvements include rock structures to slow stream velocities, diffuse scouring energy, and protect the streambed from future scour near the Rodriguez Bridge timber piles.

The benefits of constructing the Project's improvements are threefold:

1. Protecting the existing waterline will help prevent structural failure during storm flows, ensuring reliable delivery of water to the LWTP and, thus, distribution of treated water to the Five Cities area.
2. Providing fish passage over the existing pipeline encasement will enhance southern steelhead habitat in Arroyo Grande Creek, providing for a better environment.
3. Protecting the existing Rodriguez Bridge timbers from scour will help in maintaining a reliable access road to Lopez Dam facilities.

OTHER AGENCY INVOLVEMENT/IMPACT

The cities of Arroyo Grande, Pismo Beach, Grover Beach, Oceano Community Services District, and CSA 12 obtain approximately 4,530 acre feet of water through the pipeline each year with representatives on the Flood Control Zone 3 Technical and Advisory Committees. District staff continues to inform and periodically update the Zone 3 representatives on the implementation of this project, and both committees support its implementation. The District has received environmental permits from the Army Corps of Engineers, Regional Water Quality Control Board and California Department of Fish and Game to undertake and mitigate this work.

County Counsel has reviewed the Contract for legal form and effect.

FINANCIAL CONSIDERATIONS

This multi-year project is budgeted in the Flood Control Zone 3 Budget at \$689,101. The estimated total project costs are estimated at \$895,000. Additional funding of \$165,000 is budgeted in fiscal year 2012-13. The remaining funds will come from Flood Control Zone 3 Reserves.

At the time of Award, when actual project costs are known, we will return to the Board with a budget adjustment to increase the appropriation if necessary. At this time, the anticipated funding from reserves is \$40,899, which is 2% of \$1,980,000 Zone 3 reserves. Consequently, the use of reserves to augment project funding is not a significant reduction in those reserves. Alternatively, the Zone 3 agencies could be charged for the additional cost. The staff recommendation to utilize reserves is based on the desire to maintain billings to agencies at budgeted levels.

Please see Exhibit "A" for an estimated cost breakdown of the project.

RESULTS

Approval of the recommended action provides for the advertisement of a construction Contract for bids to construct improvements within Arroyo Grande Creek to protect the reliability of Lopez water distribution, enhance steelhead habitat and protect the Rodriguez Bridge. This will contribute to the County's community goals of providing for a safe, healthy, livable and well governed community.

File: Contract No. 300369

c: Tom Trott, Project Manager

Reference: 12JUN19-C-7

L:\DESIGN\JUN12\BOS\300369 Rodriguez Bridge Advertise brd ltr.doc.TT:mac

ATTACHMENTS

1. Vicinity Map
2. Exhibit A – Project Cost Estimates
3. Rodriguez Bridge Waterline Crossing Photos
4. Plans and Specifications